

**Amendments to the Specification:**

Beginning with the last paragraph on page 5, please amend the specification as follows:

The detector signals are preferably summed and fed to sequence analysing means. Preferably each pulse causes a time period to be considered, with other pulses being received in that period being associated with the initial pulse. In this way sequences of single, double, triple and greater numbers of neutron detections are obtained. Neutrons detected within the time period are accepted as originating from the same spontaneous fission within the sample as the initial pulse. ~~Preferably the detections are subjected to a correction factor. The correction factor may account for accidental coincidences, for instance detections from different source which give the emissions impression of a pair or greater.~~